

Dr. Wasielewski's current interests involve implant design, smart implants, intraoperative sensors, and bone graft substitutes.

The following publications appear in peer reviewed journals:

1. **Wasielewski RC**, Galat DD, Komistek RD. Correlation of compartment pressure data from an intraoperative sensing device with postoperative fluoroscopic kinematic results in TKA patients. *J Biomech.* 2005 Feb;38(2):333-9.
2. **Wasielewski RC**, Galat DD, Komistek RD. An intraoperative pressure-measuring device used in total knee arthroplasties and its kinematics correlations. *Clin Orthop Relat Res.* 2004 Oct;(427):171-8.
3. Galat DD, Petrucci JA, **Wasielewski RC**. Radiographic evaluation of screw position in revision total hip arthroplasty. *Clin Orthop Relat Res.* 2004 Feb;(419):124-9.
4. **Wasielewski RC**. The causes of insert backside wear in total knee arthroplasty. *Clin Orthop Relat Res.* 2002 Nov;(404):232-46.
5. Kennedy MS, O'Shaughnessy R, **Wasielewski RC**, Waheed A, Hewitt M, Krugh D. Hemolytic disease of the newborn caused by transfusion of a husband's directed blood donation. A case report. *J Bone Joint Surg Am.* 1999 Aug;81(8):1170-2.
6. **Wasielewski RC**, Weed H, Prezioso C, Nicholson C, Puri RD. Patient comorbidity: relationship to outcomes of total knee arthroplasty. *Clin Orthop Relat Res.* 1998 Nov;(356):85-92.
7. **Wasielewski RC**, Parks N, Williams I, Surprenant H, Collier JP, Engh G. Tibial insert undersurface as a contributing source of polyethylene wear debris. *Clin Orthop Relat Res.* 1997 Dec;(345):53-9.
8. **Wasielewski RC**, Barden RM, Rosenberg AG. Results of different surgical procedures on total knee arthroplasty infections. *J Arthroplasty.* 1996 Dec;11(8):931-8.
9. Berger R, Fletcher F, Donaldson T, **Wasielewski R**, Peterson M, Rubash H. Dynamic test to diagnose loose uncemented femoral total hip components. *Clin Orthop Relat Res.* 1996 Sep;(330):115-23.
10. Berzins A, Sumner DR, **Wasielewski RC**, Galante JO. Impacted particulate allograft for femoral revision total hip arthroplasty. In vitro mechanical stability and effects of cement pressurization. *J Arthroplasty.* 1996 Aug;11(5):500-6.
11. **Wasielewski RC**, Galante JO, Leighty RM, Natarajan RN, Rosenberg AG. Wear patterns on retrieved polyethylene tibial inserts and their relationship to technical considerations during total knee arthroplasty. *Clin Orthop Relat Res.* 1994 Feb;(299):31-43.
12. **Wasielewski RC**, Cooperstein LA, Kruger MP, Rubash HE. Acetabular anatomy and the transacetabular fixation of screws in total hip arthroplasty. *J Bone Joint Surg Am.* 1990 Apr;72(4):501-8.
13. Cordero L, Tillman RD, **Wasielewski RC**, Nissen C. Complications of conventional high frequency jet ventilation in piglets after lung lavage. *Ped Pulm.* 1989;6:158-63.
14. Louthan, MR, **Wasielewski RC**. Hydrogen embrittlement of type 316 stainless steel. *Microstructural Science.* 1984;14(6): 64-75.

The following publications appear in other journals:

1. **Wasielewski RC**, Jacobs JJ, Shanbag A, Rubash HE. The acetabular insert - metal backing interface as an important source of polyethylene wear debris. *Pittsburgh Orthopaedic Journal.* 2000;11:131-40.
2. **Wasielewski RC**. Techniques in the treatment of the infected total knee arthroplasty. *Orthopaedic Techniques.* 1998 Jun;8(3):158-67.

3. **Wasielowski RC**, Rosenberg AG. Revision—Infected Total Knee Arthroplasty. *Techniques in Orthopaedics*. 1993;7(4):86-95.
4. **Wasielowski RC**, Crossett LS, Rubash HE. Neural and vascular injury in total hip arthroplasty. *Orthop Clin North Am*. 1992 Apr;23(2):219-35.

Book chapters:

1. **Wasielowski RC**, Galat DD, Komistek RD. Computer assisted ligament balancing of the femoral tibial joint using pressure sensors. In: Stiehl JB, ed. *Navigation and Robotics in Total Joint and Spine Surgery*. Springer-Verlag; 2004.
2. **Wasielowski RC**. General anatomy in the adult hip. In: Callaghan J, Rosenberg A, Rubash H, eds. *Adult Reconstructive Surgery*. 2nd ed. Philadelphia, PA: Lippincott-Raven; 2004.
3. **Wasielowski RC**. General anatomy in the adult knee. In: Callaghan J, Rosenberg A, Rubash H, eds. *The Adult Knee*. Philadelphia, PA: Lippincott, Williams & Wilkins; 2002.
4. **Wasielowski RC**. Revision acetabular surgery. In: *Orthopaedic Knowledge Update (OKU 6)*. American Academy of Orthopaedic Surgery: 1999 Feb.
5. **Wasielowski RC**. Adult hip reconstruction. In: Baratz M, Imbriglia J, eds. *The Essentials of Orthopaedic Surgery*. Thieme Publishers: 1999 Jan.
6. **Wasielowski RC**. General anatomy in the adult hip. In: Callaghan J, Rosenberg A, Rubash H, eds. *Adult Reconstructive Surgery*. 1st ed. Philadelphia, PA: Lippincott-Raven; 1997.